

ER-2 #806 05/12/17

Aircraft: [ER-2 - AFRC #806](#) ([See full schedule](#))

Flight Number: 17-6037

Payload Configuration: Solar Cell (PV) Instrument

Nav Data Collected: Yes

Total Flight Time: 1.8 hours

Comments: Takeoff at 1834 GMT; landing at 2022 GMT for a 1.8 hour mission. The pilot didn't have any issues with the PV instrument. The mission was completed as planned. As during the previous PV flights, the pilot took off a little early and burned some time to get to the target at the scheduled time. The pilot started the data run at 69,900 feet. He again arrived at the target a little early. The pilot commented that he performed a better descent profile than his last PV flight. The lowest altitude during the data run was 54,700 feet. The target was in the window + or - 0.5 deg for the entire flight.

Submitted by: Kevin Walsh on 05/12/17

Flight Segments:

From:	Palmdale, CA	To:	Palmdale, CA
Start:	05/12/17 18:34 Z	Finish:	05/12/17 20:22 Z
Flight Time:	1.8 hours		
Log Number:	172026	PI:	Matthew Myers
Funding Source:	Michael Piszczor - NASA - GRC - CODE LEX Branch Chief		
Purpose of Flight:	Science		
Comments:	The purpose of the fifth FY17 flight of the solar cell (PV) instrument was to fly a line starting near 70,000 feet at solar noon then slowly descend to below 60,000 feet. The data obtained will help standardize the measurement of solar cell performance for future space applications.		

Flight Hour Summary:

	162033	172026
Flight Hours Approved in SOFRS	8.6	6
Flight Hours Previously Approved		3.2
Total Used	5.4	10.8
Total Remaining		-1.6

172026 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
04/12/17	17-6032	Science	2.2	2.2	7	
04/14/17	17-6033	Science	1.9	4.1	5.1	
05/09/17	17-6035	Science	2.1	6.2	3	
05/11/17	17-6036	Science	1.4	7.6	1.6	
05/12/17	17-6037	Science	1.8	9.4	-0.2	
05/15/17	17-6038	Science	1.4	10.8	-1.6	

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Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

162033 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
05/23/16	16-6022	Science	1.8	1.8	6.8	
05/24/16	16-6023	Science	1.8	3.6	5	
05/25/16	16-6024	Science	1.8	5.4	3.2	

